Claims

[c1] 1. A polycarbonate composition comprising:

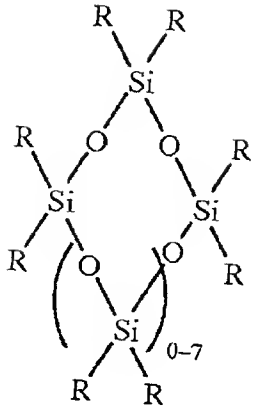
(a)polycarbonate produced in a base-catalyzed melt polymerization reaction to which an acidic quencher has been added in a 1 to 30-fold molar ratio with respect to the amount of initial basic catalyst; and

(b)a flame-retardant component comprising a potassium perfluoralkane sulfonate and a cyclic siloxane, wherein components (a) and (b) work in combination such that the composition achieves a V0 UL flammability rating at a thickness of 2 mm and has a haze of no more than 1%.

[c2] 2. The composition of claim 1, wherein the base catalyst employed in the base-catalyzed melt polymerization reaction is a sodium salt.

[c3] 3. The composition of claim 2, wherein components (a) and (b) work in combination such that the composition achieves a V0 UL flammability rating at a thickness of 1.6 mm.

[c4] 4. The composition of claim 3, wherein the cyclic siloxane has the



wherein R is independently selected from the group consisting of C_1 to C36 alkyl, fluorinated or perfluorinated C_1 to C_{36} alkyl, C_1 to C_{36} alkoxy, C_6 to C_{14} aryl, aryloxy of 6 to 14 carbon atoms, arylalkoxy of 7 to 36 carbon atoms, and C_1 to C_{36} alkyl-substituted aryl of 6 to 14 carbon

atoms.

[c5] 5. The composition of claim 4, wherein the potassium perfluoroalkane sulfonate is potassium perfluorobutane sulfonate.

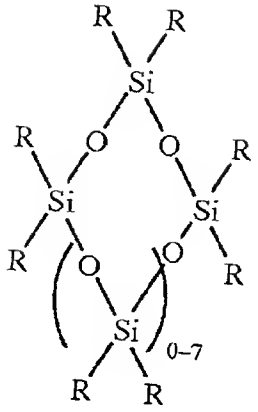
[c6] 6. The composition according to claim 5, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

[c7] 7. The composition according to claim 5, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

[c8] 8. The composition according to claim 4, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

[c9] 9. The composition according to claim 4, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

[c10] 10. The composition of claim 2, wherein the cyclic siloxane has the



wherein R is independently selected from the group consisting of C_1 to C36 alkyl, fluorinated or perfluorinated C_1 to C_{36} alkyl, C_1 to C_{36} alkoxy, C_6 to C_{14} aryl, aryloxy of 6 to 14 carbon atoms, arylalkoxy of 7 to 36 carbon atoms, and C_1 to C_{36} alkyl-substituted aryl of 6 to 14 carbon

atoms.

[c11] 11. The composition of claim 10, wherein the potassium perfluoroalkane sulfonate is potassium perfluorobutane sulfonate.

[c12] 12. The composition according to claim 11, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

[c13] 13. The composition according to claim 11, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

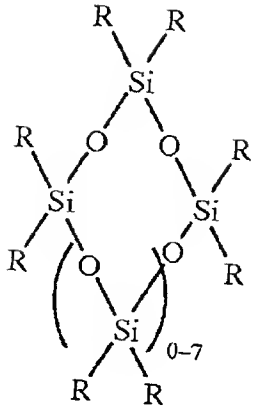
[c14] 14. The composition according to claim 10, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

[c15] 15. The composition according to claim 10, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

[c16] 16. The composition of claim 2, wherein the base catalyst employed in the base-catalyzed melt polymerization reaction is sodium hydroxide.

[c17] 17. The composition of claim 16, wherein components (a) and (b) work in combination such that the composition achieves a V0 UL flammability rating at a thickness of 1.6 mm.

[c18] 18. The composition of claim 17, wherein the cyclic siloxane has the



wherein R is independently selected from the group consisting of C_1 to C36 alkyl, fluorinated or perfluorinated C_1 to C_{36} alkyl, C_1 to C_{36} alkoxy, C_6 to C_{14} aryl, aryloxy of 6 to 14 carbon atoms, arylalkoxy of 7 to 36 carbon atoms, and C_1 to C_{36} alkyl-substituted aryl of 6 to 14 carbon

atoms.

[c19] 19. The composition of claim 18, wherein the potassium perfluoroalkane sulfonate is potassium perfluorobutane sulfonate.

[c20] 20. The composition according to claim 19, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

[c21] 21. The composition according to claim 19, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

[c22] 22. The composition according to claim 18, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

[c23] 23. The composition according to claim 18, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.